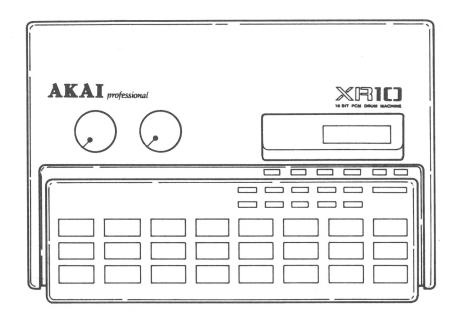
AKAI SERVICE MANUAL



16 BIT PCM DRUM MACHINE

MODEL XR10

SPECIFICATIONS

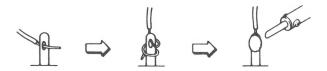
Programmable pattern . 99 patterns (Maximum of 4
measures, maximum of 7,000
notes)
song 20 varieties (Maximum of 99
parts)
Sound timing resolution $1/384$ (Fourth note = 96)
Tempo 1 beat 40 to 296
Display 16 charactors × 2 lines LCD
Output terminals Stereo output jacks R/L(MONO)
Effect send output jack
Headphone jack
Connection terminals AC adaptor jack(12 V, 200mA)
MIDI connector(IN/OUT)
START/STOP jack
FILE-IN jack
Dimensions
Weight 1.7 kg
Standard accessories
AC adaptor 1
Operator's manual 1

^{*} For improvement purposes, specifications and design are subject to change without notice.

***SAFETY INSTRUCTIONS**

PRECAUTIONS DURING SERVICING

- 1. Parts identified by the △ (*) symbol are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
- These must also be replaced only with specified replacements.
- Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
- 3. Use specified internal wiring. Note especially:
- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
- 3) Spacers (Insulating Barriers)
- 4) Insulation sheets for transistors
- 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

PRECAUTIONS FOR LITHIUM BATTERY

The lithium battery explode when heated excessively.

[OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type only
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not recharge battery.
- Do not dispose of battery in fire.





[RECOMMENDED WAY]

INFORMATIONS

[ABOUT MEMORY DATA]

All relevant data are memorized in the internal ROMs and lithium battery RAM.

A: ROM contains

- 1) Wave data(2 masked ROMs)
- 2) Sound initial parameter
- 3) Preset pattern NO. 1 to 26
- 4) Pad bank initial setting NO. 1 to 10
- 5) MIDI Note initial assignment

B: RAM contains

- 1) Preset pattern NO. 27 to 50 (Write protected)
- 2) Song NO. 1 to 20 (Demo songs are stored in NO. 1 to 3)
- 3) Sound parameter NO. 1 to 97
- 4) User pattern NO. 1 to 99(Demo sequences use NO. 1 to 22)
- 5) Pad bank NO. 6 to 10.
- 6) MIDI Note assignment.

When the battery RAM and it's relevant circuit fail or is replaced, all memorized data in RAM are lost.

[ABOUT THE BULK DUMP]

RAM memorized data may be lost in the course of repair. To back-up the accidental loss of customer's data as well as factory preset data, save/load the data using BULK DUMP function to/from another XR10 or units capable of storing MIDI bulk data such as MIDI data filer, MIDI sequencer,etc..

bulk dump function procedure are as follows.

A: SAVE

- 1. Connect MIDI cable and set the receiving unit ready to accept bulk data from XR10.
- 2. Press "MODE" button several times to set to "UTILITY MODE" as shown.



3. Use cursor keys " ✓" and " ✓" to set to "BULK DUMP" mode as shown.

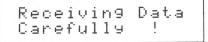
PLEASE SELECT BULK DUMP +/YKey

4. Press "+/Y" key to start sending data via MIDI.

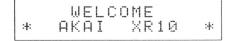
Sending Data --Carefully !

B: LOAD

- 1. Connect MIDI cable and set the transmitting unit ready to send bulk data to XR10.
- 2. Press "MODE" button several times to set to "UTILITY MODE".
- 3. Start sending bulk data. While receiving, XR10 indicates it on display as shown.



4. When completed, display shows "COMPLETE" then shows the intial screen.



[ABOUT RESET]

XR10 may be reset to initialized setting by turning it on while pressing ten keys "1" and "2" simultaneously. When reset however, all memorized data in RAM including demo songs(NO. 1 to 3) and demo pattern(User pattern NO. 1 to 22), are cleared except preset patterns NO. 27 to 50.

I. CONTROLS

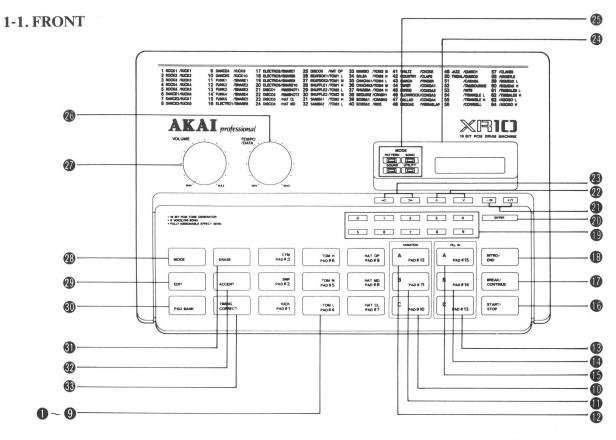


Fig. 1-1 Top view

1 to **9** KEY PAD -1 to -9

Pad that outputs various sound. It can also be used to program the pattern data during pattern write.

● to **●** KEY PAD −10 to −12

Pad that outputs various sound(-10 to -12) that are also used for selection of variation patterns from type A to C.

® to **®** KEY PAD −13 to −15

Pad that outputs various sound(-13 to -15) that are also used for selection of fill-in pattern from type A to C.

6 START/STOP button

Starts or stops a pattern or song play. select ending patterns during song write.

● BREAK/CONTINUE button

This button used to insert the break pattern during pattern play or to escape from the break pattern. Futhermore, it can be used to select the break patterns during song write.

■ INTRO/END button

This button used to start with the intro pattern, or to stop with the ending patternduring pattern play. Furthermore it can also be used to select intro patterns during song write.

@Ten key

This key is used to select numbers or to set the value of patterns.

© ENTER key

This key is used to perform the commands in combination with the ten key.

4 +/- key(Yes/No key)

This key is used to move a step sequence forward or backward during song write. Furthermore, it is also used to answer yes or no to parform various function. Moreover, it is also used to adjust the tempo during pattern or song play.

COMMAND key

This key is used to select a command orperform other functions.

CURSOR key

This key is used to select a preset or user pattern or perform other functions.

② Display

This LCD can display up to 16 charactors \times 2 lines.

Mode LED

This LED will light to indicate the selected mode. Furthermore, it will flash according to the beat in the pattern mode.

TEMPO/DATA knob

This knob is used to adjust the tempo or to set the parameter value.

VOLUME knob

This knob is used to adjust the total volume.

MODE button

This button is used to alternate among the 4 modes.

② EDIT button

This button is used to enter the pattern or song edit mode.

PAD BANK button

This button is used to select a pad bank.

ERASE button

This button is used to erase the data.

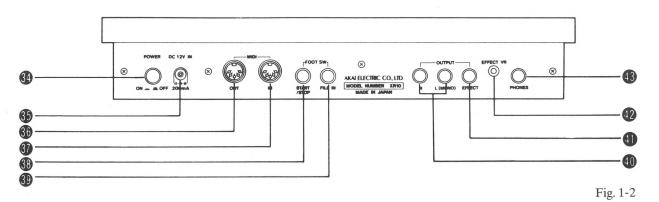
ACCENT button

This button is used to accentuate the sounds while playing or writing.

® TIMING CORRECT button

This button is used to correct the play timing of the sounds or perform other functions.

1-2. **REAR**



POWER switch

This switch is used to turn the power on or off.

AC adaptor jack

This jack is used to connect the AC adaptor.

MIDI OUT jack

This jack output MIDI clock and bulk data created by the XR10.

MIDI IN jack

This jack is used to input external MIDI signal.

3 and 5 FOOT SW jack

These jacks are used to connect the optional foot switch.

1 OUTPUT (L/MONO & R) jacks

These jacks outputs the sounds in stereo/monoaral.

1 EFFECT send output jack

This jack output the mixed sound signal to the effector or the like.

EFFECT send volume knob

This knob is used to adjust the total level of the mixed sound signal output from the effect send out jack.

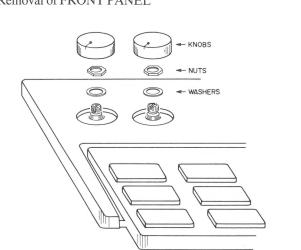
® HEADPHONE jack

This jack is used to connect the headphone.

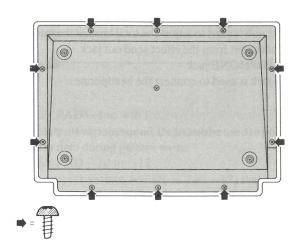
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In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.

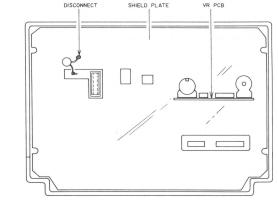
When re-attaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.



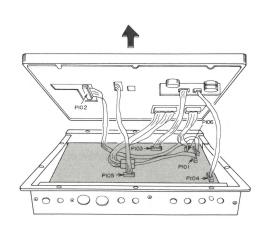
1. Removal of TOP and BOTTOM parts



4.

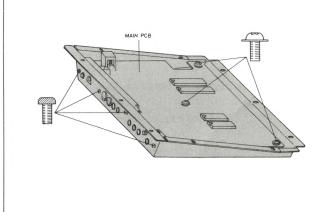


* Remove screws.



* Disconnect the connectors P101 to P106.

5. Removal of MAIN PCB



III. Phin

III. PRINCIPAL PARTS LOCATION

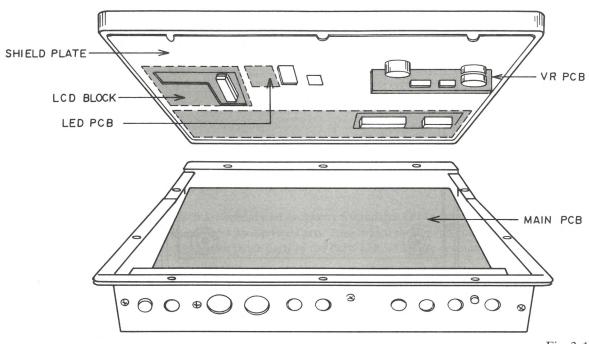


Fig. 3-1

— SERVICE MANUAL —

4-1. DISPLAY CONTRAST ADJUSTMENT

1) Adjust VR2 from the bottom, so that the display on the top panel is obtained reasonable contrast.

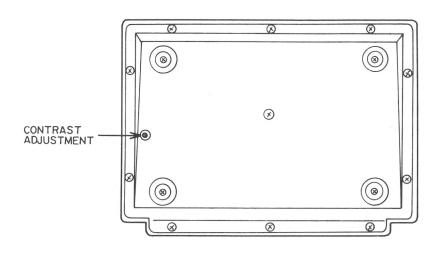


Fig. 4-1

4-2. CONFIRMATION OF OUTPUT LEVELS

1) Turn XR10 on while pressing tenkeys "3" and "4" simultaneously to set it in test mode. It now generates 400Hz sinewave signal to check output circuits.

2) Connect milli-voltmeter to each output and confirm the followings.

OUTPUT	RESOLT	CONTROL SETTING
L(MONO) R EFFECT	Level: 8.2 ± 1.5 dBm Distortion: Less than 1.0%	VOLUME: "MAX" TEMPO/DATA: "MAX" EFFECT VR: "MAX"
HEADPHONE	Level: 8.2 ± 1.5 dBm Distortion: Less than 1.0%	VOLUME: "MAX" TEMPO/DATA: "MAX"

Also, all 4 mode indicator LEDs light up when any one of the operation buttons is pressed, except ERASE, ACCENT and TIMING CORRECT buttons, to check OPERATION PCB. Turn off the unit to exit from test mode.

4-3. CONFIRMATION OF RESIDUAL NOISE

1) Turn XR10 on, and connect milli-voltmeter to each output through the IHF-A filter, then Confirm the following.

OUTPUT	RESOLT	CONTROL SETTING
L(MONO)	-85 dBm(IHF-A)	VOLUME: "MAX" TEMPO/DATA: "MAX"
EFFECT		
HEADPHONE	-78 dBm(IHF-A)	

V. PARTS LIST

ATTENTION

- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering.

 If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
- a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1 2 3 4 5	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895	HEAD BASE BLOCK HEAD R/P PR4-8FU C PAN20×03STL CMT BID20×08STL CMT SP CS ANGLE ADJUST
	SP (Se	ervice Parts) Classification
	This n	number corresponds with the individ

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION	
IC1	EI-324536	IC HD14049BP	
IC2	EI-336801	IC MB8841-564M	
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]	
C1B	EC-350949	C MMY V 223M 250DC [J]	
C1C	EC-338397	C MMY V 223M 125AC [C,A]	
X1	EI-318384	OSC X'TAL NC-18C	
$\overline{\Lambda}$	<u></u>	//	
	Symbols for primary destination		
	[A]: AAL (U.S.A) [S]: SAA (Australia)		
	, ,	AB (England) [U]: U/T (Universa	
	1 1	(Canada) Area)	
	[E]: CEE (Europe) [V]: VDE (W. Germany)		
	[J]:JPN	(Janan) [Y]: Custom Version	
	SP (Service Parts) Classification		
	These reference symbols correspond		
	with component symbols in the		
	Schematic Diagrams.		
	SCII	ciliatic Diagrams.	

The available PC Board Blocks are listed separately.

ual parts index number in that figure.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

 \triangle (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

 $\triangle(*)$ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

- PARTS LIST

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

1 AX-394174J AC ADAPTER XR10-A(A,C) [C,A,Y1] 2 AX-394171J AC ADAPTER XR10-A(B) [B] 3 AX-394173J AC ADAPTER XR10-A(E,V) [E,V] 4 AX-394175J AC ADAPTER XR10-A(J) [J] 5 AX-394172J AC ADAPTER XR10-A(J) [J] 5 AX-394172J AC ADAPTER XR10-A(J) [J] 6 *EC-379161 BATTERY LITHIUM BR2330-1HF 7 ED-388539J D LED GL-3HD43 [PATTEN] 8 ED-389834J D SILICON DS135E-FB2 F12 100/1 9 ED-344280 D SILICON DS135E-FB2 F12 100/1 10 EH-389997J COMP D DAN801 11 EH-389998J COMP D DAN801 12 EH-389593J COMP B RGLD4X223J 13 EH-378418 COMP R RGLD6X472J 15 EH-386207J FILTER LC LP BL-30VF 16 EL-388749J IC HM62256LP-12 17 EL-389592J IC LC7881-C 18 EL-378295 IC MB834200A-20 0D2 19 EL-392754J IC MB834200A-20 0D2 20 EL-392754J IC MB834200A-20 0D3 21 EL-353227 IC M5216L 22 EL-3933241 IC M5218AL 23 EL-364888 IC M5223L 24 EL-336995 IC NJM7805A 25 EL-355655 IC NJM7805A 26 EL-364253 IC PST520D-2 27 EL-372008 IC TMW4007-03 29 EL-392700J IC TMW4007-03 29 EL-392700J IC TMW4007-03 20 EL-384182J IC UPD78C10G-36 21 EL-354167 OSC CE CSA120MT 12.000000MHZ 23 EL-386150J SOCKET INLET YKB31-0001A 1P 24 EJ-38610J IND LCD LM16257 37 *ES-386146J WP USH SPUN12 1-02-03N [PONER] 38 EJ-384649J PHONE J 3P YKB21-5012 6.3 [OUT PUT R] 34 EJ-35611 PHONE J 3P YKB21-5012 6.3 [OUT PUT R] 35 EJ-386160J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J WP USH SPUN12 1-02-03N [POWER] 38 EJ-39819J TR 25C2960 E,F 41 ET-360137 TR 25C3330 U,V F05 44 EV-392704J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 45 EV-386208J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 46 EV-392704J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 47 EV-386208J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 48 EV-386208J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 49 EV-386208J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 40 ET-38189J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB] 41 EV-392704J VR ROTARY EW-EPAP15A15 A104X2 [VOLUMB]	Ref. No.	Part No.	Description
2 AX-394171J AC ADAPTER XR10-A(B) B 3 AX-394173J AC ADAPTER XR10-A(E,V) E,V] 4 AX-394175J AC ADAPTER XR10-A(J) J 5 AX-394172J AC ADAPTER XR10-A(J) J 6 *EC-379161 BATTERY LITHIUM BR2330-1HF 7 ED-388539J D LED GL-3HD43 [PATTEN] 8 ED-389834J D SILICON DS135E-FB2 F12 100/1 9 ED-344280 D SILICON IN GMA-01-FY2 F05 10 EH-389997J COMP D DAN801 11 EH-389998J COMP D DAN801 12 EH-389593J COMP B RGLD4X223J 13 EH-378418 COMP R RGLD6X472J 15 EH-386207J FILTER LC LP BL-30VF 16 EL-388749J IC HM62256LP-12 17 EL-389592J IC LC7881-C 18 EL-378295 IC MBB34200A-20 0D2 19 EL-392754J IC MB834200A-20 0D2 20 EL-392754J IC MB834200A-20 0D3 21 EL-355227 IC M5216L 22 EL-393324J IC M5216L 23 EL-36488B IC M5223L 24 EL-336995 IC NJM7805A 25 EL-356655 IC NJM7805A 25 EL-356655 IC NJM7805A 26 EL-394253 IC PST520D-2 27 EL-37200B IC TMW4007-03 29 EL-392700J IC TMW4008-10 30 EL-384182J IC UPD78C10G-36 31 EL-354123 OSC CE CSA120MT 12 000000MHZ 32 EJ-386150J SOCKET INLET YKB31-0001A 1P 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386160J SOCKET INLET YKB31-0001A 1P 36 EM-388210J IND LCD LM16287 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2360 E,F 41 ET-360137 TR 2SC3330 U,V F05 44 EV-386208J VR ROTARY EVH-CCAP15B14 B103 ITEMPO/DATA] 47 EV-386208J VR ROTARY EVH-CCAP15B14 B103 ITEMPO/DATA] 48 EV-386208J VR ROTARY EVH-CCAP15B14 B103 ITEMPO/DATA] 49 EV-392704J VR ROTARY EVH-CCAP15B14 B103 ITEMPO/DATA] 40 EV-392704J VR ROTARY EVH-CCAP15B14 B103 ITEMPO/DATA] 41 EV-392704J VR ROTARY EVH-CCAP15B14 B103	1	AX-394174J	
AX-394173J AC ADAPTER XR10-A(E,V) [E,V] AX-394175J AC ADAPTER XR10-A(J) [J] AX-394172J AC ADAPTER XR10-A(S) [S] AX-394172J AC ADAPTER XR10-A(S) [S] AX-394172J AC ADAPTER XR10-A(S) [S] BATTERY LITHIUM BR2330-1HF DED-388539J D LED GL-3HD43 [PATTEN] BED-389834J D SILICON DS135E-FB2 F12 100/1 DED-344280 D SILICON H GMA-01-FY2 F05 COMP D DAN801 EH-389997J COMP D DAN801 EH-389998J COMP D DAN801 EH-389593J COMP R RGLD4X223J COMP R RGLD4X223J COMP R RGLD4X223J COMP R RGLD6X472J EH-380592J IC LC7881-C EH-386207J FILTER LC LP BL-30VF EH-389592J IC LC7881-C EH-389592J IC LC7881-C IC MB834200A-20 0D2 EH-392754J IC MB834200A-20 0D2 EH-392754J IC MB834200A-20 0D3 EH-392701J IC M5216L EH-336995 IC NJM7805A EH-364888 IC M5223L EH-354888 IC M5223L CE H-392699 IC NJM7805A EH-392700J IC TM94007-03 EH-392700J IC TM94008-10 EH-392700J IC TM94008-10 EH-392700J IC TM94008-10 EH-394123 OSC CE CSA120MT 12.000000MHZ DIN J YKF51-5033 5P [MID] ABAPTER XR10-A(J) IMD LCD LM16257 FE-386150J SOCKET INLET YKB31-0001A 1P IMD LCD LM16257 FE-386146J SW PUSH SPUN12 1-02-03N [POWER] BH-36210J IND LCD LM16257 FE-386160J SW PUSH SPUN12 1-02-03N [POWER] BH-36290J IR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] VR ROTARY RK09K1110 A104	2	AX-394171J	AC ADAPTER XR10-A(B)
AX-394175J AC ADAPTER XR10-A(J) [J] AX-394172J AC ADAPTER XR10-A(S) [S] AX-394172J AC ADAPTER XR10-A(S) [S] EXEC-379161 BATTERY LITHIUM BR2330-1HF D ED 388539J D LED GL-3HD43 [PATTEN] B ED-389834J D SILICON DS135E-FB2 F12 100/1 B ED-344280 D SILICON DS135E-FB2 F12 100/1 D EH-389997J COMP D DAN601 EH-389998J COMP D DAN601 EH-389998J COMP D DAN801 EH-389998J COMP R RGLD4X223J AC EH-38096J COMP R RGLD4X223J AC EH-38096J COMP R RGLD6X472J EH-38096J COMP R RGLD6X472J EH-380970J IC HM62256LP-12 COMP R RGLD6X472J EH-389592J IC LC7881-C E-388749J IC HM62256LP-12 EH-389595 IC MBM27C256-15CZ-G EH-392701J IC MB834200A-20 0D2 EH-392754J IC MB834200A-20 0D3 EH-392754J IC M5216L EH-33688B IC M5223L EH-33688B IC M5223L EH-33688B IC M5223L EH-336648B IC M5223L EH-336648B IC M5223L EH-37200B IC TMW4007-03 EH-392700J IC TMW4007-03 EH-392700J IC TMW4007-03 EH-392700J IC TMW4008-10 IC TMW4008-10	3	AX-394173J	AC ADAPTER XR10-A(E,V)
5 AX-394172J AC ADAPTER XR10-A(S) [S] 6 ★EC-379161 BATTERY LITHIUM BR2330-1HF 7 ED-388539J D LED GL-3HD43 [PATTEN] 8 ED-389834J D SILICON D S135E-FB2 F12 100/1 9 ED-344280 D SILICON H GMA-01-FY2 F05 10 EH-389997J COMP D DAN801 11 EH-389998J COMP D DAN801 12 EH-389593J COMP R RGLD4X223J 13 EH-378418 COMP R RGLD4X223J 14 EH-389593J COMP R RGLD6X472J 15 EH-386207J FILTER LC LP BL-30VF 16 EI-388749J IC HM62256LP-12 17 EI-389592J IC LC7881-C 16 EI-389592J IC MB872C256-15CZ-G 19 EI-392701J IC MB834200A-20 0D2 20 EI-392754J IC MB834200A-20 0D2 21 EI-392727J IC MB834200A-20 0D3 21 EI-392693 IC MS218AL 23 EI-3942893 IC MM7805A 25 EI-35425 IC NJM7805A	4	AX-394175J	AC ADAPTER XR10-A(J)
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25 EI-355655 IC NJM7805A 26 EI-364253 IC PST520D-2 27 EI-372008 IC TMP82C37AP-5 28 EI-392699J IC TMW4007-03 29 EI-392700J IC TMW4008-10 30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	23	EI-364888	IC M5223L
26 EI-364253 IC PST520D-2 27 EI-372008 IC TMP82C37AP-5 28 EI-392699J IC TMW4007-03 29 EI-392700J IC TMW4008-10 30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MID] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	24	EI-336995	IC NJM78L05A
27 EI-372008 IC TMP82C37AP-5 28 EI-392699J IC TMW4007-03 29 EI-392700J IC TMW4008-10 30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MID] [MID] IMID] PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-385011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	25	EI-355655	IC NJM7805A
28 EI-392699J IC TMW4007-03 29 EI-392700J IC TMW4008-10 30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MIDI] [MIDI] [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC3330 U,V F05 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	26	EI-364253	IC PST520D-2
29 EI-392700J IC TMW4008-10 30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	27	EI-372008	IC TMP82C37AP-5
30 EI-384182J IC UPD78C10G-36 31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC2960 E,F 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	28	EI-392699J	IC TMW4007-03
31 EI-354123 OSC CE CSA120MT 12.000000MHZ 32 EJ-386137J DIN J YKF51-5033 5P [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC2960 E,F 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	29	EI-392700J	IC TMW4008-10
32 EJ-386137J DIN J YKF51-5033 5P [MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	30	EI-384182J	IC UPD78C10G-36
[MIDI] 33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	31	EI-354123	OSC CE CSA120MT 12.000000MHZ
33 EJ-386449J PHONE J 2P YKB21-5012 6.3 [OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	32	EJ-386137J	
[OUT PUT R] 34 EJ-355011 PHONE J 3P YKB21-5010 6.3 [PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104			
[PHONES] 35 EJ-386150J SOCKET INLET YKB31-0001A 1P 36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC2960 E,F 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104			[OUT PUT R]
36 EM-386210J IND LCD LM16257 37 *ES-386146J SW PUSH SPUN12 1-02-03N [POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	34	EJ-355011	
37	35	EJ-386150J	SOCKET INLET YKB31-0001A 1P
[POWER] 38 ET-354167 DETECTOR PC900V 39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	36	EM-386210J	IND LCD LM16257
39 ET-392711J TR DTC143TF 40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	37	* ES-386146J	
40 ET-383189J TR 2SC2960 E,F 41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	38	ET-354167	
41 ET-360137 TR 2SC3330 U,V F05 42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	39	ET-392711J	TR DTC143TF
42 EV-386209J VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	40	ET-383189J	TR 2SC2960 E,F
[TEMPO/DATA] 43 EV-386208J VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	41	ET-360137	TR 2SC3330 U,V F05
[VOLUME] 44 EV-392704J VR ROTARY RK09K1110 A104	42	EV-386209J	
	43	EV-386208J	
	44	EV-392704J	

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-L4008A020A	PC(#) MAIN BLK XR10
2	BA-L4008A030A	PC(#)OPERATION BLK XR10

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD.

* MAIN P.C BOARD

* LED P.C BOARD

PC (#) OPERATION BLK CONSISTS OF FOLLWING P.C BOARD
* OPERATION P.C BOARD
* VR P.C BOARD

3. MAIN P.C BOARD

Ref. No.	Part No.	Description
BT2	*EC-379161	BATTERY LITHIUM BR2330-1HF
D1	ED-344280	D SILICON H GMA-01-FY2 F05
D2	ED-344280	D SILICON H GMA-01-FY2 F05
D6	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D7	ED-344280	D SILICON H GMA-01-FY2 F05
F1	EH-386207J	FILTER LC LP BL-30VF
F2	EH-386207J	FILTER LC LP BL-30VF
F3	EH-386207J	FILTER LC LP BL-30VF
IB1	EH-378418	COMP R RGLD4X223J
IB2	EH-378418	COMP R RGLD4X223J
IC1	El-384182J	IC UPD78C10G-36
IC2	EI-378295	IC MBM27C256-15CZ-G
IC3	EI-388749J	IC HM62256LP-12
IC4	EI-392699J	IC TMW4007-03
IC5	EI-392700J	IC TMW4008-10
IC6	EI-372008	IC TMP82C37AP-5
IC7	EI-372008	IC TMP82C37AP-5
IC8	El-392701J	IC MB834200A-20 0D2
IC9	EI-392754J	IC MB834200A-20 0D3
IC10	EI-389592J	IC LC7881-C
IC11	EI-389592J	IC LC7881-C
IC12	El-364888	IC M5223L
IC13	EI-364888	IC M5223L
IC14	EI-393324J	IC M5218AL
IC15	EI-353227	IC M5216L
IC16	EI-336995	IC NJM78L05A
IC17	EI-355655	IC NJM7805A
IC18	EI-364253	IC PST520D-2
J1	EJ-386449J	PHONE J 2P YKB21-5012 6.3
01	L0 000++00	[OUT PUT R]
J2	EJ-386449J	PHONE J 2P YKB21-5012 6.3
32	LJ-300443J	
10	E10004401	[OUT PUT L[MONO]]
J3	EJ-386449J	PHONE J 2P YKB21-5012 6.3
1.1	=1.0==0	[OUT PUT EFFECT]
J4	EJ-355011	PHONE J 3P YKB21-5010 6.3
		[PHONES]
J5	EJ-386449J	PHONE J 2P YKB21-5012 6.3
		[FOOT SW START/STOP]
J6	EJ-386449J	PHONE J 2P YKB21-5012 6.3
		[FOOT SW FILL IN]
J7	EJ-386137J	DIN J YKF51-5033 5P
		[MIDI]
J8	EJ-386150J	SOCKET INLET YKB31-0001A 1P
L7	EO-394178J	COIL FIX 2 SBT-0240
L8	EO-394178J	COIL FIX 2 SBT-0240
PH1	ET-354167	DETECTOR PC900V
R24	ER-366065	R OMF H S12 FS 1W 470J
R25	ER-366065	R OMF H S12 FS 1W 470J
	*ES-386146J	
SW1	か E3-3001403	SW PUSH SPUN12 1-02-03N
TD4	ET 000400 I	[POWER]
TR1	ET-383189J	TR 2SC2960 E,F
TR2	ET-360137	TR 2SC3330 U,V F05
TR3	ET-360137	TR 2SC3330 U,V F05
TR4	ET-383189J	TR 2SC2960 E,F
VR1	EV-392704J	VR ROTARY RK09K1110 A104
		[EFFECT VR]
VR2	EV-371278	R S-FIX H VM6CKPVB 0.30W 501
X1	EI-354123	OSC CE CSA120MT 12.000000MHZ
1	EZ-200473	SILICON RUBBER SHEET TC-30
2	ZW-632226	WASHER INSULATOR (BUSH M)

4. LED P.C BOARD

Ref. No.	Part No.	Description
D8	ED-388539J	D LED GL-3HD43 [PATTEN]
D9	ED-388539J	D LED GL-3HD43 [SONG]
D10	ED-388539J	D LED GL-3HD43 [UTILITY]
D11	ED-388539J	D LED GL-3HD43 [SOUND]
IB3	EH-389593J	COMP R RGLD4X102J

5. OPERATION P.C BOARD

Ref. No.	Part No.	Description
D11	EH-389998J	COMP D DAN801
D12	EH-389998J	COMP D DAN801
D13	EH-389998J	COMP D DAN801
D14	EH-389997J	COMP D DAN601
D15	EH-389997J	COMP D DAN601
D16	EH-389997J	COMP D DAN601
IB4	EH-383096J	COMP R RGLD6X472J
TR4	ET-392711J	TR DTC143TF
TR5	ET-392711J	TR DTC143TF
TR6	ET-392711J	TR DTC143TF
TR7	ET-392711J	TR DTC143TF
TR8	ET-392711J	TR DTC143TF
TR9	ET-392711J	TR DTC143TF

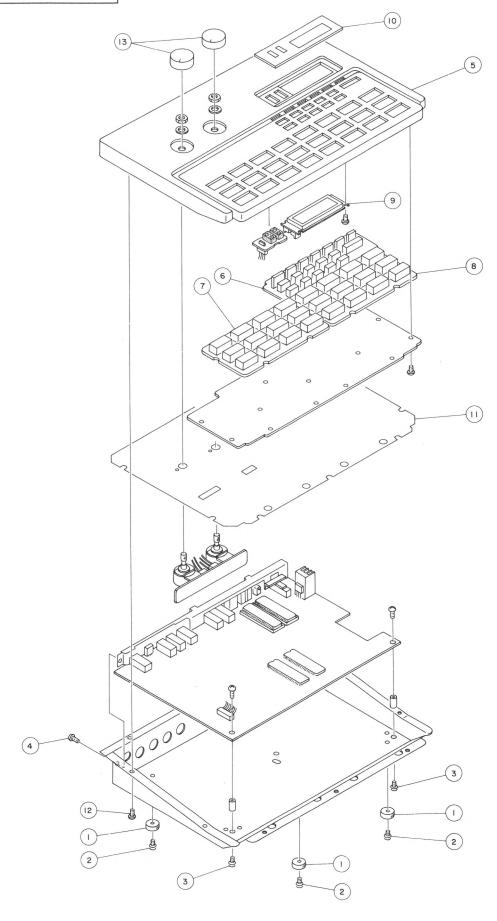
6. VR P.C BOARD

Ref. No.	Part No.	Description
VR1	EV-386208J	VR ROTARY EWK-EPAP15A15 A104X2 [VOLUME]
VR2	EV-386209J	VR ROTARY EVH-CCAP15B14 B103 [TEMPO/DATA]

- PARTS LIST -

— PARTS LIST —

FINAL ASSEMBLY BLOCK



– PARTS LIST –

7. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SA-349332	FOOT
2	ZS-377926	ST BR30X05STL BNI C08
3	ZS-608477	PAN30X04STL BNI
4	ZS-345272	ST BR30X06STL BNI
5	SP-392683J	PANEL FRONT
6	SB-392085J	BUTTON TEN KEY
7	SB-392684J	BUTTON OPERATE L
8	SB-392086J	BUTTON OPERATE R
9	EM-386210J	IND LCD LM16257
10	SE-392685J	WINDOW PANEL
11	SZ-392713J	SHIELD PANEL
12	ZS-351204	PT BR30X06STL BNI
13	SK-392686J	KNOB(A)

NOTE: Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

8. ACCESSARY

Ref. No.	Part No.	Description
1A	AX-394175J	AC ADAPTER XR10-A(J) [J]
1B	AX-394174J	AC ADAPTER XR10-A(A,C) [C,A,Y1]
1C	AX-394173J	AC ADAPTER XR10-A(E,V) [E,V]
1D	AX-394171J	AC ADAPTER XR10-A(B) [B]
1E	AX-394172J	AC ADAPTER XR10-A(S) [S]

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AX-394171J AX-394171J AX-394172J AX-394172J AX-394173J AX-394173J AX-394174J AX-394174J AX-394175J AX-394175J	1-2 8-1D 1-5 8-1E 1-3 8-1C 1-1 8-1B 1-4 8-1A	EJ-355011 EJ-386137J EJ-386150J EJ-386150J EJ-386449J EJ-386449J EJ-386449J EJ-386449J EJ-386449J	3-J4 1-32 3-J7 1-35 3-J8 1-33 3-J1 3-J2 3-J3 3-J5				
BA-L4008A020A BA-L4008A030A EC-379161 EC-379161 ED-344280 ED-344280 ED-344280 ED-344280 ED-388539J ED-388539J	2-1 2-2 1-6 3-BT2 1-9 3-D1 3-D2 3-D7 1-7 4-D8	EJ-386449J EM-386210J EM-386210J EO-394178J EO-394178J ER-366065 ER-366065 ES-386146J ES-386146J ET-354167	3-J6 1-36 7-9 3-L7 3-L8 3-R24 3-R25 1-37 3-SW1 1-38				
ED-388539J ED-388539J ED-388539J ED-389834J ED-389834J EH-378418 EH-378418 EH-378418 EH-383096J EH-383096J	4-D9 4-D10 4-D11 1-8 3-D6 1-13 3-IB1 3-IB2 1-14 5-IB4	ET-354167 ET-360137 ET-360137 ET-360137 ET-383189J ET-383189J ET-392711J ET-392711J	3-PH1 1-41 3-TR2 3-TR3 1-40 3-TR1 3-TR4 1-39 5-TR4 5-TR5				
EH-386207J EH-386207J EH-386207J EH-386207J EH-389593J EH-389997J EH-389997J EH-389997J EH-389997J	1-15 3-F1 3-F2 3-F3 1-12 4-IB3 1-10 5-D14 5-D15 5-D16	ET-392711J ET-392711J ET-392711J ET-392711J EV-371278 EV-386208J EV-386208J EV-386209J EV-386209J EV-392704J	5-TR6 5-TR7 5-TR8 5-TR9 3-VR2 1-43 6-VR1 1-42 6-VR2				
EH-389998J EH-389998J EH-389998J EH-389998J EI-336995 EI-353227 EI-353227 EI-354123 EI-354123	1-11 5-D11 5-D12 5-D13 1-24 3-IC16 1-21 3-IC15 1-31 3-X1	EV-392704J EZ-200473 SA-349332 SB-392086J SB-392684J SE-392686J SK-392686J SP-392683J SZ-392713J	3-VR1 3-1 7-1 7-6 7-8 7-7 7-10 7-13 7-5 7-11				
EI-355655 EI-355655 EI-364253 EI-364253 EI-364888 EI-364888 EI-364888 EI-372008 EI-372008	1-25 3-IC17 1-26 3-IC18 1-23 3-IC12 3-IC13 1-27 3-IC6 3-IC7	ZS-345272 ZS-351204 ZS-377926 ZS-608477 ZW-632226	7-4 7-12 7-2 7-3 3-2				
EI-378295 EI-378295 EI-384182J EI-384182J EI-388749J EI-389592J EI-389592J EI-389592J EI-389592J EI-392699J	1-18 3-IC2 1-30 3-IC1 1-16 3-IC3 1-17 3-IC10 3-IC11 1-28						
EI-392699J EI-392700J EI-392701J EI-392701J EI-392754J EI-392754J EI-393324J EJ-393324J EJ-355011	3-IC4 1-29 3-IC5 1-19 3-IC8 1-20 3-IC9 1-22 3-IC14 1-34						

- PARTS LIST -

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ABREVIATIONS FOR THE SERVICE MANUAL

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AMP (Amp)	AMPlifier	MINI	MINImum
BBD	Backet Brigade Diode	MIX	MIXer
BCD	Binary Code Decimal	MOD	MODulation
B.DOWN	Brak Down	OSC	OSCillator
B.UP	Back UP	RAM	Random Access Memory
CE	Chip Enable	RD	ReaD
CH	Channel	REG	REGulator
COMP	COMParator	RESO	RESOnance
CONT	CONTrol	RL	ReLay
CV	Control Voltage	ROM	Read Only Memory
D/A	Digital to Analogue	S/H	Sample and Hold
EG	Envelope Generator	SW	SWitch
EXT	EXTernal	THRU	THRoUgh
FREQ	FREQuency	TRANS	TRANSpose
HPF	High Pass Filter	U	Upper
INH	INHibit	VA	Voltage Analog
INT	INTerrupt	VCA	Voltage Controlled Amplifier
INV	INVerter	VCF	Voltage Controlled Filter
L	Lower	VR	Variable Resistor
LFO	Low Frequency Oscillator	VREF	REFerence Voltage
MAX	MAXimum	WR	WRite
MEMO	MEMOry		
MIDI	Musical Instrument Digital		
	Interface		

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AKAI

MODEL XR10

SCHEMATIC DIAGRAMS AND PC BOARDS

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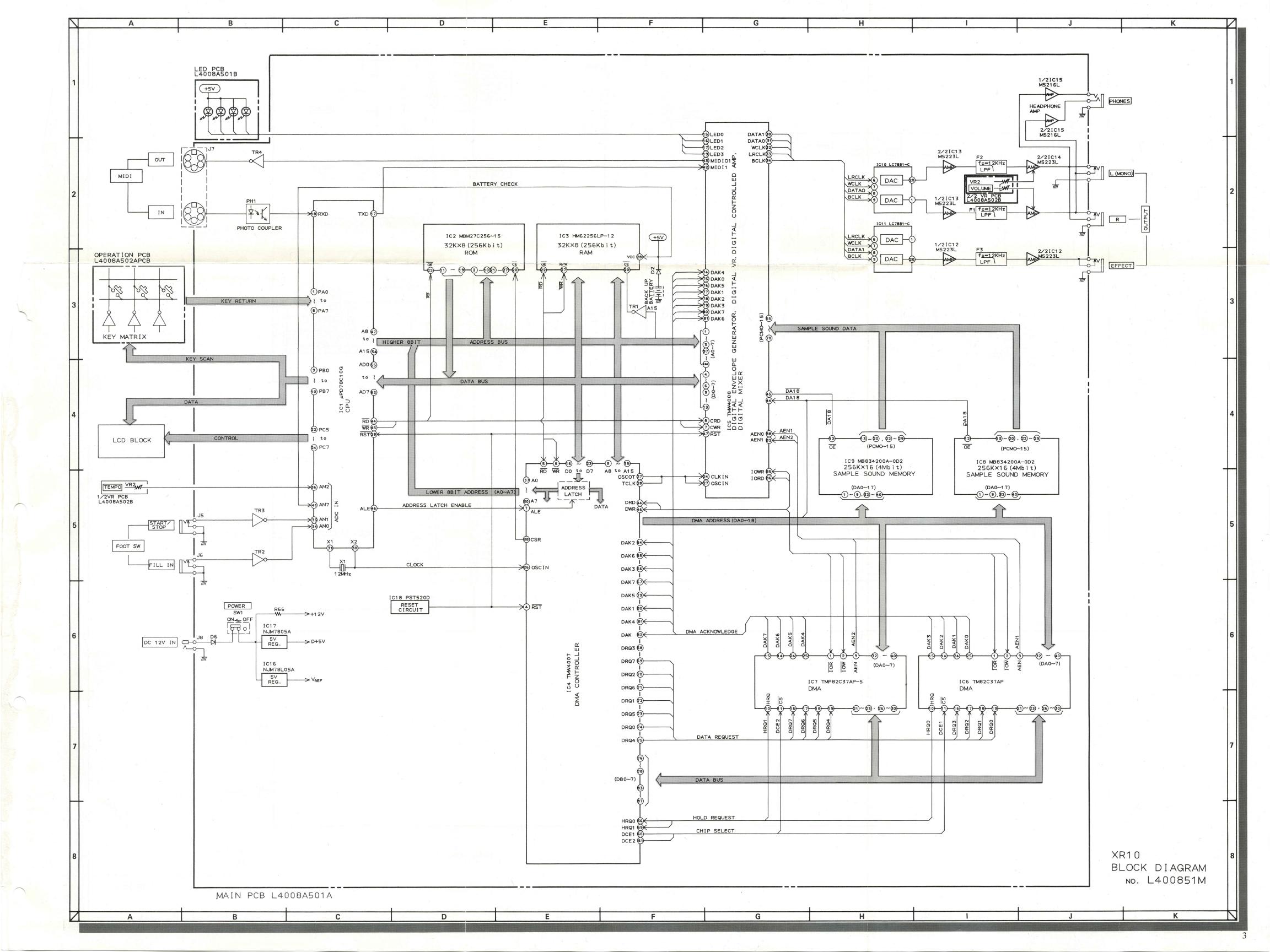
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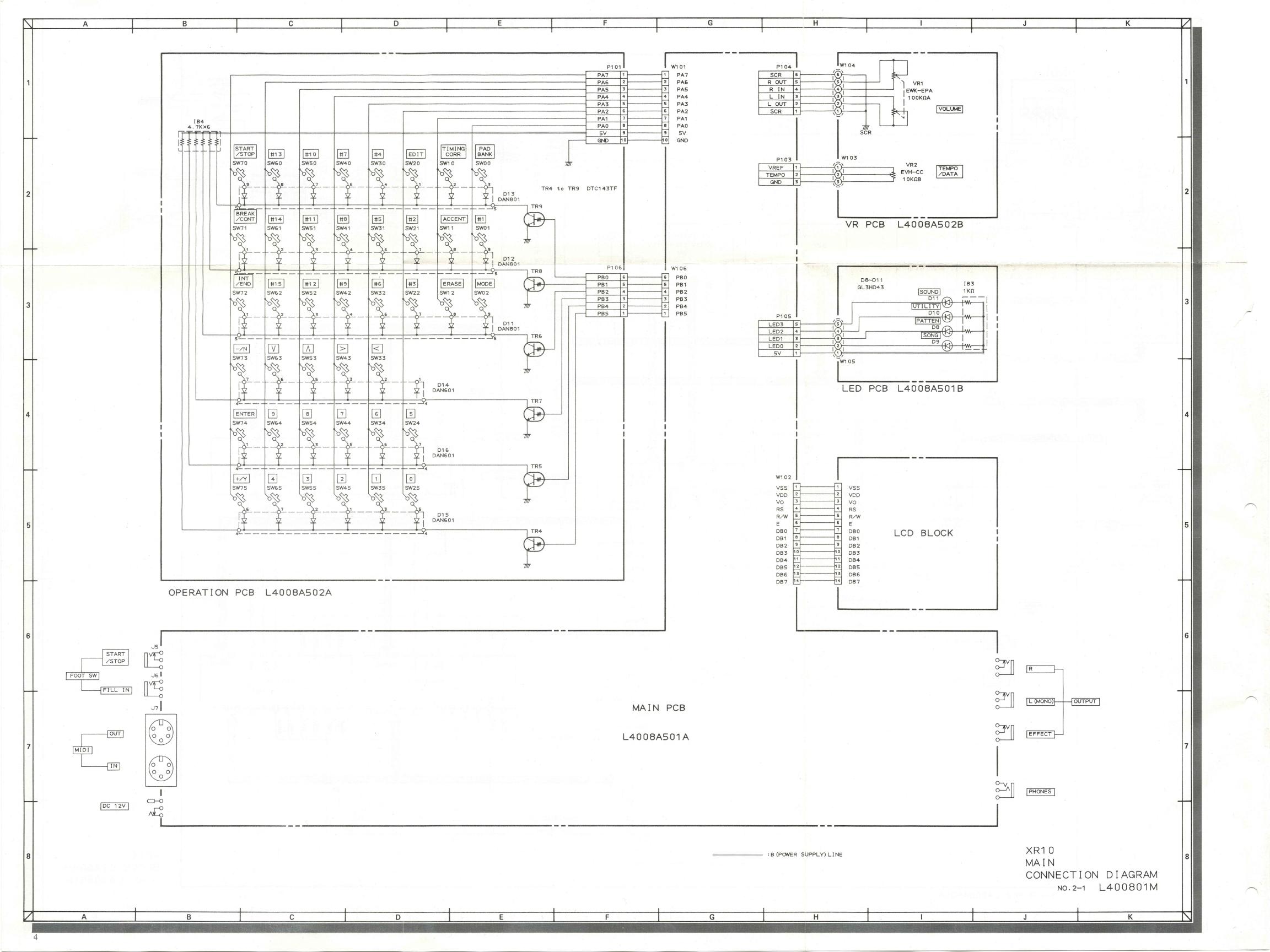
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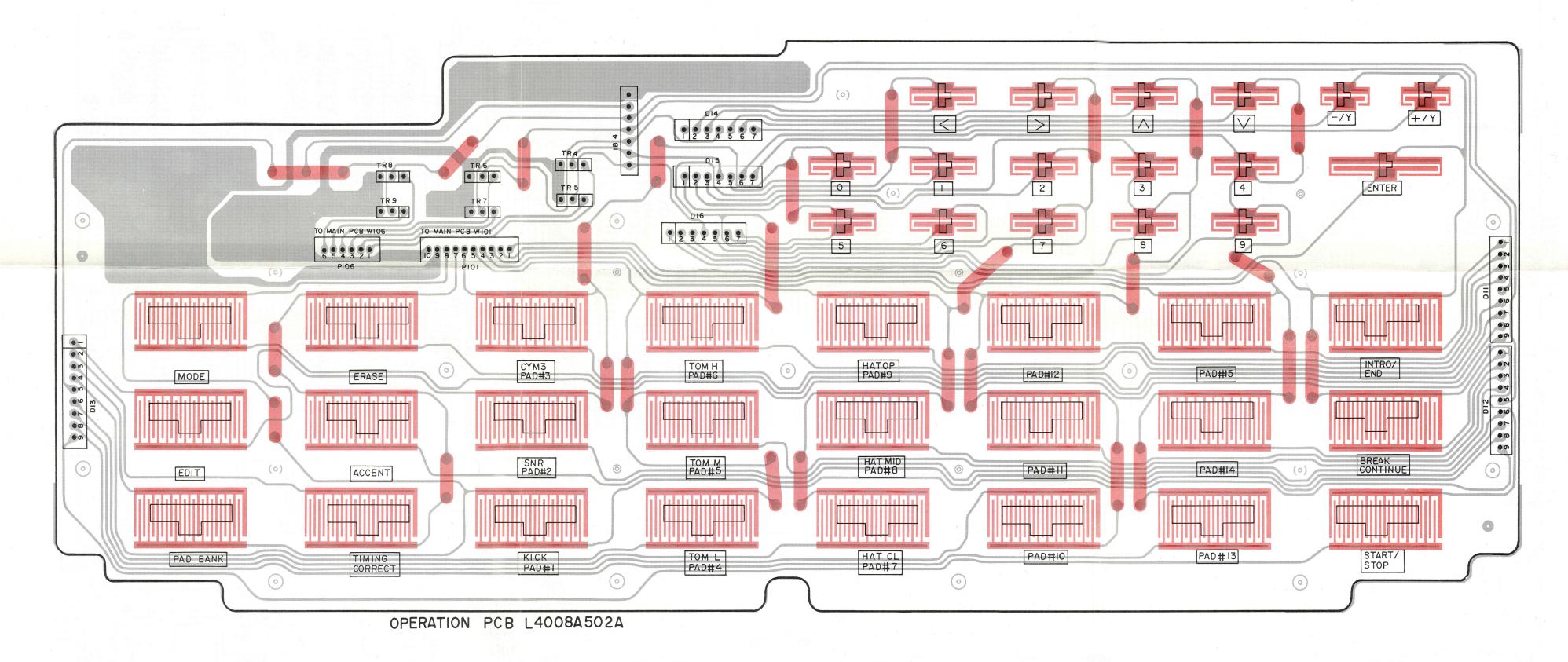
Name of IC	FUNCTIONS
HM62256LP-12	32k x 8 bit(256k bit) SRAM
LC7881-C	16 bit D/A convertor
MB834200-0D2	$256k \times 16 \text{ bit}(4M \text{ bit}) \text{ MASK ROM}$
MBM27C256-15	$32k \times 8$ bit(256k bit) EPROM
TMP82C37AP-5	Multi mode DMA controller
TMW4007-03	Gate array (DMA controller, etc.)
TMW4008-10	Gate array (Digital Envelope generator, digital VRs, digital controlled Amp, and digital mixer, etc.
μPD78C10G	8 Bit CPU with A/D convertors

LC7881-1 (16 Bit D/A convertor)

Pin No.	SYMBOL	FUNCTIONS	
1	CH 1 OUT	Ch. 1 output	
2	Vref H1	Reference voltage "H" input terminal 1	
3	Vref H2	Reference voltage "H" input terminal 2	
4	Vdd	+5 V Power supply	
5	WCLK 2	Word clock 2 input	
6	LRCK	LR clock input. "H": Ch. 1, "L": Ch. 2	
7	WCLK 1	Word clock 1 input	
8	DATA	Digital audio data input	
9	BCLK	Bit clock input	
10	Vdd	+5V Power supply	
11	TSTOUT	Output terminal for test	
12	TST 1	Input terminal for test	
13	TST 2	Input terminal for test	
14	IF	Interface select control input "H": Digital audio data is input from the MSB first "L": Digital audio data is input from the LSB first	
15	GND	Ground terminal	
16	Vref L1	Reference voltage "L" input terminal 1	
17 18	GND Vref L2	Ground terminal Reference voltage "L" input terminal 2	
19	NC	No connection	
20	CH 2 OUT	Ch. 2 output	

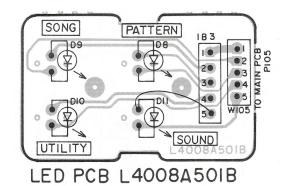


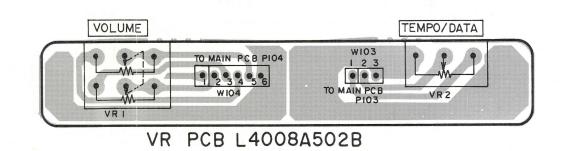


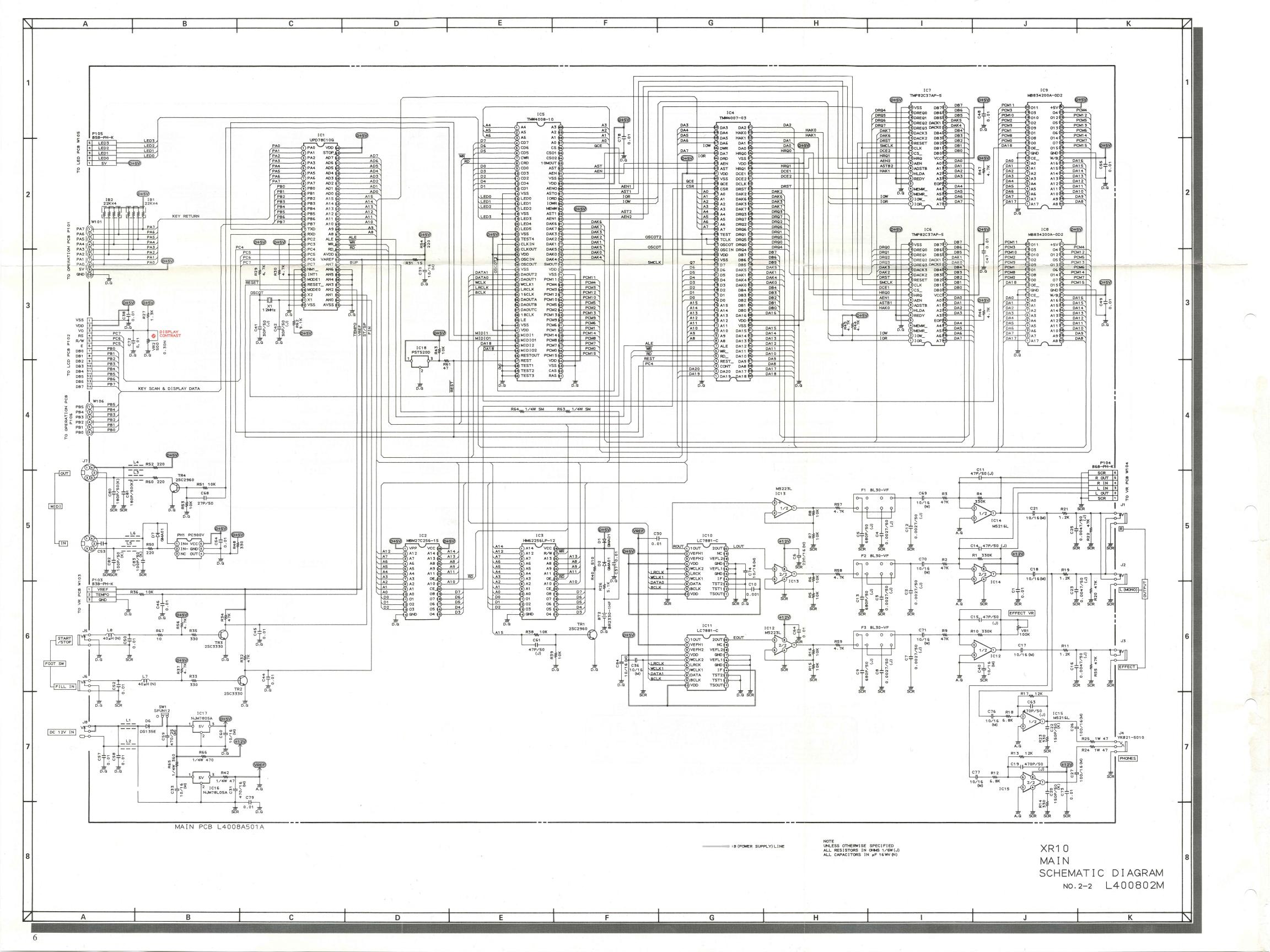


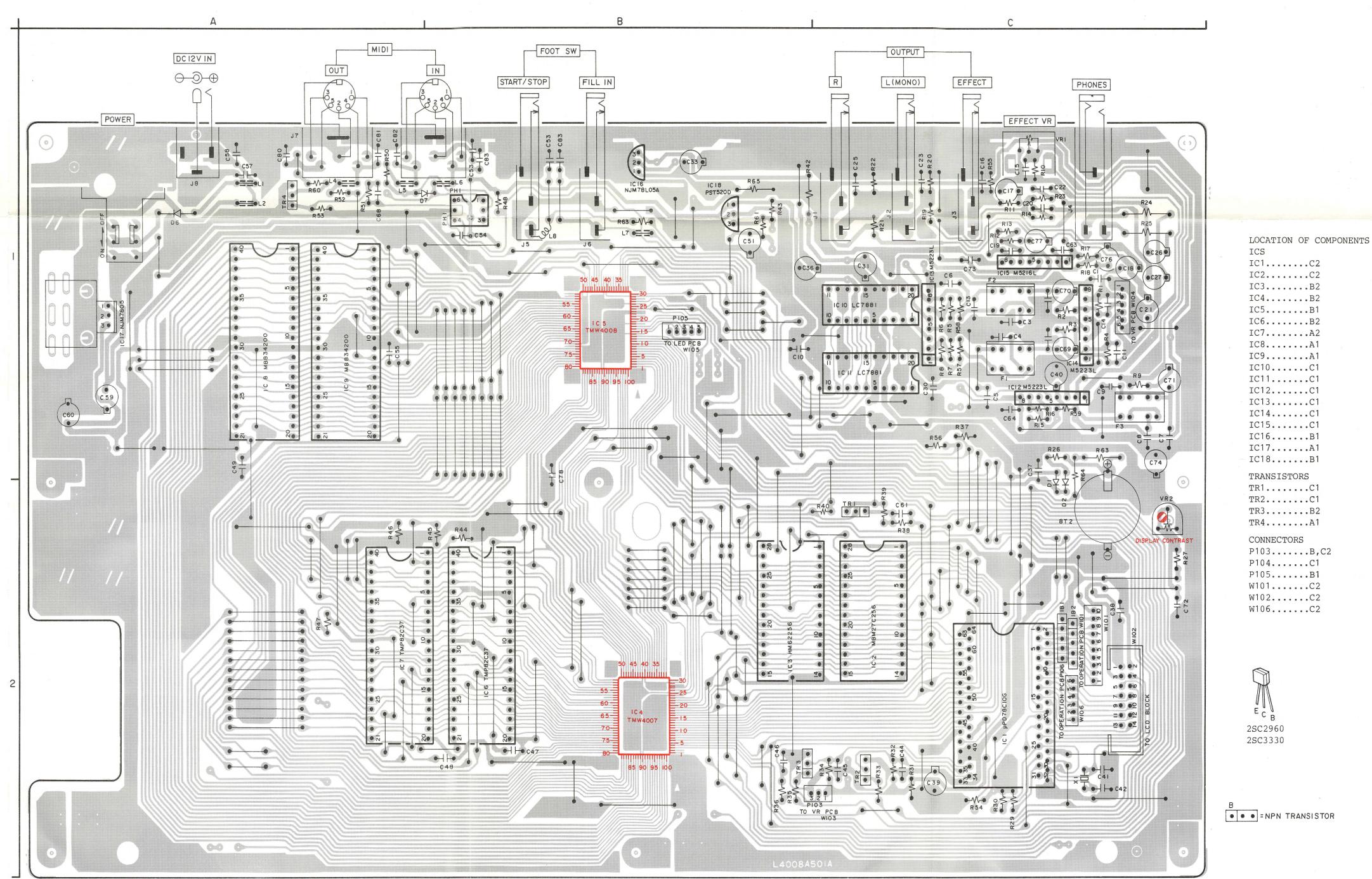












MAIN PCB L4008A50IA